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APPLICATION N	O. F	TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/803,404 03/18/2		03/18/2004	Darrel J. Svendsen	14124-1	5565
25542	7590	11/02/2004		EXAMINER	
	MERICA LI	LC OPERTY LAW DEF	LEE, KEVIN L		
	PO BOX 1895, M.S. 641			ART UNIT	PAPER NUMBER
NEW HOLLAND, PA 17557			3753		

DATE MAILED: 11/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/803,404	SVENDSEN ET AL
Office Action Summary	Examiner	Art Unit
	KEVIN L LEE	3753
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with th	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply by within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS to a cause the application to become ABAND	e timely filed days will be considered timely. from the mailing date of this communication. DNED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on		
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.	
3) Since this application is in condition for allowar closed in accordance with the practice under E	•	
Disposition of Claims		
4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Examine	r.	
10) ☐ The drawing(s) filed on is/are: a) ☐ acc		
Applicant may not request that any objection to the		•
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau	s have been received. s have been received in Applicative documents have been received in Received in Received in Received in PCT Rule 17.2(a)).	cation No eived in this National Stage
* See the attached detailed Office action for a list	or the certified copies not rece	aveu.
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summ	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/18/04 & 5/24/04.	Paper No(s)/Ma 5) Notice of Inform 6) Other:	il Date lal Patent Application (PTO-152)

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Art Unit: 3753

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Bunnell et al (U.S. Patent No. 6,789,568). The patent to Bunnell discloses a fuel tank system for a vehicle, comprising a first fuel tank (112) and a second fuel tank (116), a cross feed line (120) coupled to and between the tanks, and a check valve (150) pivotally disposed in the cross feed line.

Claim Rejections - 35 USC § 102

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bunnell et al in view of Kramer (U.S. Patent No. 4,702,274). The check valve of Bunnell et al lacks being comprised of a substantially planar and circular polymeric sheet having an upper portion, a lower portion, and a polymeric hinge portion formed integral with and coupling the upper and lower portions, the valve further including planar stiffener sheets fixed to the polymeric sheet. The patent to Kramer teaches the above exception in providing a flapper valve (55) comprising a substantially planar and circular polymeric sheet having an upper portion, a lower portion and a polymeric hinge portion integral and coupling the upper and lower portions. Two stiffener sheets (58, 59) are coupled to the valve element (55) via at least one fastener (60), see Figure 3. In view of the teaching of Kramer, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the valve system of Bunnell et al to include a check valve comprising a substantially planar and circular polymeric sheet having an upper and lower portion and stiffener sheets to provide a reinforced check valve which is chemically resistant to the fuel supply.

Claims 11-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kramer. The patent to Kramer discloses a flapper valve (55) comprising a polymeric annulus (28) having a bottom end having a width in an axial direction greater than a thickness in a radial direction. A generally planar valve element (55) has an upper end fixed to the annulus. Stiffener sheets (58, 59) are coupled to the valve element (55) via at least one fastener (60), see Figure 3. The claimed recitation of the flapper valve "for a

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fuel tank system" is considered to be a suggested use. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the valve of Kramer to control the fluid flow through a fuel tank system.

Claims 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herlihy (U.S. patent no. 5,285,816). The patent to Herlihy discloses a flapper valve comprising a polymeric annulus (11) having a bottom end having a width in an axial direction greater than a thickness in a radial direction. A generally planar valve element (30) has an upper end fixed to the annulus. The claimed recitation of the flapper valve "for a fuel tank system" is considered to be a suggested use. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the valve of Herlihy to control the fluid flow through a fuel tank system. In particular regards to claims 13 and 14, a stiffener sheet (36) is fixed to a lower portion of the circular polymeric sheet (30), col. 2, lines 58-67.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN L LEE whose telephone number is (703) 308-1025. The examiner can normally be reached on MONDAY-THURSDAY.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, GENE MANCENE can be reached on (703) 308-2696. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

OCTOBER 27, 2004

Kevin Lee Primary Examiner